NAVMSMO
Navy Modeling and Simulation Management Office

Simulation Planning and Road Map Development

Contents and Relationships

31 March 2004

Document Highlights and Timing

- **Baseline Assessment**
  - Describes Navy simulation applications and funding in FY 2003
  - Training / education, ops / experimentation, acquisition, assessment
- **Master Plan**
  - Provides Navy-wide simulation vision, goal, strategies for achievement
  - Traditional application areas and six key enablers
- **Road Maps**
  - Define needs, objectives, metrics for application and enabling areas
  - Express implementing structure, processes, and resources over time
- **Investment Strategy**
  - Coordinates Navy-wide simulation and supporting resources

Relationships and Key Terms

Baseline Assessment
Descriptive
Application Areas (and enablers)
Programs and Funding
Trends and Issues

Master Plan
Prescriptive
Navy-Wide Vision and Goal
Application Areas and Enablers
(associated visions and goals)
Strategies and Sequencing
NAVMSMO's Mission

Application and Enabler Road Maps
Proactive
Area visions and goals
Implementation, Objectives, Funding, Metrics
Processes, Resources, Timing
Organizational Missions

Investment Strategy
Fiscal
Simulation and Supporting Efforts
Analysis and Navy-Wide Rationalization and POMing
Dollars, Personnel, and Facilities with Potential for Synergy

Baseline Assessment Summary

- **Describes simulation use in training and education, operations and experimentation, acquisition, and assessment**
- **Presents capabilities provided, requirements addressed, and funding received in FY03**
- **Also, simulation relevance to FORCEnet and the Navy's organizational responsibilities**
- **NAVMSMO's mission and use in S&T are highlighted**
- **Published in April 2003 - 24 pages and ~150 end notes**
- **Copies can be requested from NAVMSMO**

Master Plan Summary

- **Navy-wide simulation vision, goal, and strategies for achievement**
- **Application areas are training, assessment, support to operations, and acquisition**
- **Enablers are engaging the warfighter, human expertise, information exchange, coordinated simulation use, aligning science and technology, and standards**
- **Applications and enablers are defined, visions and goals specified, strategies presented and sequenced, and associated organizations identified**
- **Also simulation's contribution to transformation and overall conclusions**
- **Drafts can be requested from NAVMSMO beginning in May.**

Road Map Summary

- **Converts vision, goals, strategies from Master Plan into specific *executable* actions and objectives for each defined area**
- **Articulates and projects simulation system and infrastructure *requirements* and available capabilities**
- **Proposes application *development*, acquisition, and deployment priorities and approaches**
- **Identifies prerequisites, *synergies*, timing, and sequencing of system, decisions, and processes**
- **Establishes *technology* insertion and modernization opportunities and approaches for leveraging non-Navy initiatives**
- **Defines current and needed *funding* levels, resources, programmatics, and relevant performance metrics**
- **Identifies *organizational* roles and responsibilities and any proposed changes, enhancements, and cooperation needed**

Why This Particular Approach ….

- **Sequence of Baseline Assessment, Master Plan, Road Maps, and Investment Strategy**
  - Each builds on the information and recommendations of the former
- **Combining applications and enablers in the Master Plan**
  - Users, warfighters, and sponsors focus on ***current*** application areas
  - Managers, planners, and technologists focus on ***future*** capabilities
  - Including each in the MP supports ***both*** essential communities
- **Strategy in Master Plan and specifics in Road Maps**
  - Maximizes community buy-in to a Navy-wide simulation approach

The Navy's Simulation Vision and Goal

The Navy's Vision *is for simulation to be a robust, responsive, and constantly-present capability to visualize alternatives, predict outcomes, generate synthetic environments, and provide course-of-action assessments to decision makers and users.*

The goal *of the Navy's M&S community is to provide capable, reactive, and flexible simulation systems that are always available to improve operational decision making, assessment, training, and acquisition.*

Master Plan's Structure and Purpose

- Executive Summary
- Chapter 1 - Introduction
- Chapter 2 - Simulation Vision
- Chapter 3 - Alignment to Transformation
- Chapter 4 - Future Applications and Enablers
- Chapter 5 - Augment Training
- Chapter 6 - Expand Assessment
- Chapter 7 - Enhance Acquisition
- Chapter 8 - Support Operations
- Chapter 9 - Engage the Warfighter
- Chapter 10 - Expand Human Expertise
- Chapter 11 - Provide Information Exchange
- Chapter 12 - Foster Coordinated Simulation Use
- Chapter 13 - Align Science and Technology
- Chapter 14 - Develop Requisite Standards
- Chapter 15 - Conclusions and Recommendations

Motivate and engage Leadership and Users

Align M&S to Navy Transformation

Provide strategy to enhance each application and enabler

In a focused, short document

Next Steps in Document Development

- **Work with application and enabler leads**
- **Initial meeting on vision, goals, strategy**
- **Then work with each team to develop details**

- **Integrate inputs and re-draft Master Plan**
- **Draft Road Map structure and iterate with leads**
- **Collaborate at working level on Road Maps to compose text**
- **Distribute documents for comments and inputs**